2015 Consumer Confidence Report

Water System Name: KERN VALLEY STATE PRISON Report Date: July 1, 2016

We test the drinking water quality for many constituents as required by state and federal regulations. This report shows the results of our monitoring for the period of January 1 - December 31, 2015 and may include earlier monitoring data.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo ó hable con alguien que lo entienda bien.

Type of water source(s) in use: GROUND WATER

Name & general location of source(s): WELL-1 & WELL-2

Drinking Water Source Assessment information: A source water assessment was conducted in July 2004

A complete assessment may be viewed at KVSP Plant Operations Department

Time and place of regularly scheduled board meetings for public participation:

<u>Meeting would be arranged thru Plant</u>

Operations via Joseph Brancato

For more information, contact: Joseph Brancato, Chief Engineer Phone: (661) 721-6300 ext. 5899

TERMS USED IN THIS REPORT

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency (USEPA).

Public Health Goal (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Maximum Residual Disinfectant Level (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standards (PDWS): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, and water treatment requirements.

Secondary Drinking Water Standards (SDWS): MCLs for contaminants that affect taste, odor, or appearance of the drinking water. Contaminants with SDWSs do not affect the health at the MCL levels.

Treatment Technique (TT): A required process intended to reduce the level of a contaminant in drinking water.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Variances and Exemptions: State Board permission to exceed an MCL or not comply with a treatment technique under certain conditions.

ND: not detectable at testing limit

ppm: parts per million or milligrams per liter (mg/L)

ppb: parts per billion or micrograms per liter (μg/L)

ppt: parts per trillion or nanograms per liter (ng/L)

ppq: parts per quadrillion or picogram per liter (pg/L)

pCi/L: picocuries per liter (a measure of radiation)

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally-occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

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Contaminants that may be present in source water include:

- *Microbial contaminants*, such as viruses and bacteria, that may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- *Inorganic contaminants*, such as salts and metals, that can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- *Pesticides and herbicides*, that may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, that are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.
- Radioactive contaminants, that can be naturally-occurring or be the result of oil and gas production and mining activities

In order to ensure that tap water is safe to drink, the USEPA and the State Water Resources Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that provide the same protection for public health.

Tables 1, 2, 3, 4, 5, 7, and 8 list all of the drinking water contaminants that were detected during the most recent sampling for the constituent. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. The State Board allows us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of the data, though representative of the water quality, are more than one year old.

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	TABLE 1 – SAMPLING RESULTS SHOWING THE DETECTION OF COLIFORM BACTERIA								ORM BACTERIA
	Microbiological Contaminants (complete if bacteria detected)	Highest No. of Detections	No. of months in violation		MCL		MCLG	Typical Source of Bacteria	
	Total Coliform Bacteria	(In a mo.)			More than 1 sample in a month with a detection		0	Naturally present in the environment	
	Fecal Coliform or <i>E. coli</i>	(In the year)			A routine sample and a repeat sample detect total coliform and either sample also detects fecal coliform or <i>E. coli</i>		0	Human and animal fecal waste	
TABLE 2 – SAMPLING RESULTS SHOWING THE DETECTION OF LEAD AND COPPER								D AND COPPER	
	Lead and Copper (complete if lead or copper detected in the last sample set)	Sample Date	No. of samples collected	90 ^t percer leve detec	ntile el	No. sites exceeding AL	AL	PHG	Typical Source of Contaminant
	Lead (ppb)	9/23/14	<u>20</u>	.0363		<u>0</u>	15	0.2	Internal corrosion of household water plumbing systems; discharges from industrial manufacturers; erosion of natural deposits
	Copper (ppm)	9/23/14	<u>20</u>	0.1	<u>7</u>	<u>0</u>	1.3	0.3	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
		TABLE 3	- SAMPL	ING R	ESU	LTS FOR S	SODIUM A	ND HARDN	NESS
	Chemical or Constituent (and reporting units)	Sample Date	Avg. Le			Range of etections	MCL	PHG (MCLG)	Typical Source of Contaminant
	Sodium (ppm)	<u>10/6/15</u>	<u>73</u>			<u>69-75</u>	none	none	Salt present in the water and is generally naturally occurring
	Hardness (ppm)	<u>10/6/15</u>	<u>71</u>			<u>60-82</u>	none	none	Sum of polyvalent cations present in the water, generally magnesium and calcium, and are usually

^{*}Any violation of an MCL or AL is asterisked. Additional information regarding the violation is provided later in this report.

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naturally occurring

TABLE 4 – DETECTION OF CONTAMINANTS WITH A <u>PRIMARY</u> DRINKING WATER STANDARD							
Chemical or Constituent (and reporting units)	Sample Date	Avg. Level Detected	Range of Detections	MCL [MRDL]	PHG (MCLG) [MRDLG]	Typical Source of Contaminant	
Total Trihaalomethanes (ppb)	9/23/14	23.8	ND-23.8	<u>80</u>	<u>N/A</u>	By-product of drinking water chlorination	
HAA5(Total Haloacetic acids)(ppb)	9/23/14	<u>3</u>	<u>3</u>	<u>60</u>	<u>N/A</u>	By-product of drinking water chlorination	
Arsenic (ppb) Finished Water	<u>2015</u>	2.9	<u>ND-6.0</u>	<u>10</u>	<u>N/A</u>	Erosion of natural deposits; runoff from orchards; runoff from glass & electronics	
Nitrate (as nitrogen, N) Finished Water	<u>2015</u>	4.6	4.11-5.17	<u>10</u>	<u>10</u>	Runoff & leaching from fertilizer use. Leach from septic tanks, sewage; erosion of natural deposits	
Nitrite (as nitrogen,N)	<u>2015</u>	<u>ND</u>	<u>ND</u>	<u>1</u>	1	Runoff & leaching from septic tanks, Sewage; erosion of natural deposits	
Chlorine Residual (ppm)	<u>2015</u>	<u>1.5</u>	0.4-2.0	4.0	<u>4.0</u>	Drinking water disinfectant added for treatment.	
TABLE 5 – DETECTION OF CONTAMINANTS WITH A SECONDARY DRINKING WATER STANDARD							
Chemical or Constituent (and reporting units)	Sample Date	Level Detected	Range of Detections	MCL	PHG (MCLG)	Typical Source of Contaminant	
<u>Iron (ppb)</u>	10/6/15	8.67	ND-8.67	<u>300</u>	<u>N/A</u>	Leaching from natural deposits; industrial wastes.	
Total Dissolved Solids	10/6/15	<u>216</u>	207-225	1000	<u>N/A</u>	Runoff/leaching from natural deposits	
Specific Conductance (µS/cm)	10/6/15	<u>386</u>	<u>366-407</u>	<u>1600</u>	N/A	Substances that form ions when in water, Seawater influence	
<u>Chloride</u>	10/6/15	<u>48</u>	<u>47-50</u>	<u>500</u>	<u>N/A</u>	Runoff/leaching from natural deposits; seawater	
<u>Sulfate</u>	10/6/15	<u>53</u>	<u>53-54</u>	<u>500</u>	<u>N/A</u>	Runoff/leaching from natural deposits; industrial influence	

^{*}Any violation of an MCL, MRDL, or TT is asterisked. Additional information regarding the violation is provided later in this report.

Additional General Information on Drinking Water

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline (1-800-426-4791).

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. USEPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791).

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If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. KERN VALLEY STATE PRISON is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. [Optional: If you do so, you may wish to collect the flushed water and reuse it for another beneficial purpose, such as watering plants.] If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/lead.

Summary Information for Violation of a MCL, MRDL, AL, TT, or Monitoring and Reporting Requirement

VIOLATION OF A MCL, MRDL, AL, TT, OR MONITORING AND REPORTING REQUIREMENT						
Violation	Explanation	Duration	Actions Taken to Correct the Violation	Health Effects Language		
2015 Trihalo-	Test were not	<u>1 year</u>	Will test	<u>None</u>		
<u>methanes</u>	<u>taken</u>		<u>2016</u>			

Summary Information for Operating Under a Variance or Exemption

We are required to monitor your drinking water for specific contamints on a regular basis. Results of monitoring are
an indicator of whether or not our drinking water meets health standards. During the 2015 calendar year we did not
monitor or test for total trihalomethanes (TTHM) and haloacetic acids (HAA) in the distribution system and therefore
cannot be sure of the quality of the drinking water during this time.

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